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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,358	07/06/2006	Sung Cheol Yoon	29137.183.00	2782
	7590 03/09/201 DNG & ALDRIDGE L	EXAMINER		
1900 K STREE	T, NW	TESKIN, FRED M		
WASHINGTO	N, DC 20006		ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			03/09/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		A	Application No.	Applicant(s)	Applicant(s)			
			10/585,358	YOON ET AL.	YOON ET AL.			
Office Action Summary			xaminer	Art Unit				
			red M. Teskin	1796				
Period fo	The MAILING DATE of this communic or Reply	ation appea	rs on the cover sheet w	ith the correspondence	address			
WHIC - Exter after - If NC - Failu Any I	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communi- period for reply is specified above, the maximum statu- re to reply within the set or extended period for reply we reply received by the Office later than three months after ad patent term adjustment. See 37 CFR 1.704(b).	ILING DAT 37 CFR 1.136(a nication. utory period will a ill, by statute, ca	E OF THIS COMMUNI a). In no event, however, may a apply and will expire SIX (6) MOI use the application to become A	CATION. reply be timely filed NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).				
Status								
	Responsive to communication(s) filed	on 23 Dec	amhar 2000					
•	Responsive to communication(s) filed on <u>23 December 2009</u> . This action is FINAL . 2b) This action is non-final.							
3)		<i>,</i> —		ters prosecution as to t	he merits is			
<u>ا</u> رت	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🛛	Claim(s) 1-22 is/are pending in the ap	plication.						
	4a) Of the above claim(s) <u>19-22</u> is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
6)🖂	6) Claim(s) <u>1-7 and 10-18</u> is/are rejected.							
· · · · · · · · · · · · · · · · · · ·	Claim(s) 8 and 9 is/are objected to.							
8)	Claim(s) are subject to restricti	on and/or e	lection requirement.					
Applicati	on Papers							
9)□	The specification is objected to by the	Examiner.						
10)	The drawing(s) filed on is/are:	a) <u>□</u> accept	ted or b)□ objected to	by the Examiner.				
	Applicant may not request that any object	ion to the dra	awing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including t	he correction	is required if the drawing	g(s) is objected to. See 37	CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen			_					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT	0-9481		Summary (PTO-413) (s)/Mail Date				
3) 🔯 Inform	e of Dransperson's Patent Drawing Review (F1 nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>20100226</u> .	∪-⊍- ∪)		Informal Patent Application				

Detailed Action

This Office action follows a reply filed on 12/23/2009. Per the reply, claims 3, 4 and 6 have been amended. Claims 1-22 remain pending; claims 19-22 stand withdrawn from further consideration pursuant to the restriction requirement of 06/03/2009.

The amendments made to claims 3, 4 and 6 have resulted in withdrawal of the informality objection and the rejections under Section 112, 2d paragraph, as set out in the last action.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-7 and 10-18 stand rejected under 35 U.S.C. 103(a) as being unpatentable over WO 2005/019277 A1 (all reference thereto being to the corresponding English language equivalent, US 2007/0123667 A1 to Oshima et al).

The rejection is maintained substantially as set forth in the previous Office action (see pp. 4-5 thereof) and for the reasons which follow.

Applicants' arguments filed 12/23/2009 have been fully considered but are not persuasive of error in the repeated rejection.

Applicants contend that WO '277 does not constitute valid prior art against the present application because, it is argued, the effective filing date of the present

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application is July 7, 2004, which is earlier than the publication date of WO '277 (March 3, 2005), and WO '277 does not have a 35 U.S.C. 102(e)(1) date (Reply, pp. 10-11). In support of the priority claim, applicants have submitted a certified translation of Korean Application No. KR 10-2004-0052612, filed July 7, 2004, to which the present application claims priority via a PCT national stage application.

To respond: the claims in a U.S. application are entitled to the benefit of a foreign priority date *if* the corresponding foreign application supports the claims in the manner required by 35 USC 112, first paragraph (see MPEP 2163.03(III)). Instantly, applicants have not alleged, much less shown, that the priority application supports the full scope of the invention as claimed in the present application. Upon review of the certified translation, examiner finds that at least claims 1, 4 and 5 hereof contain considerable subject matter which is not described, expressly or implicitly, in the priority application. In particular, claim 1 recites a procatalyst represented by formula (1):

$$\begin{bmatrix} X \\ M + R_2 \end{bmatrix}_{2-p}$$

where X is a hetero atom selected from S, O and N;

 R_1 is $-CH=CHR^{20}$, $-OR^{20}$, $-SR^{20}$, $-N(R^{20})_2$, $-N=NR^{20}$, $-P(R^{20})_2$, $-C(O)R^{20}$, $-C(R^{20})=NR^{20}$, $-C(O)OR^{20}$, $-OC(O)OR^{20}$, $-OC(O)R^{20}$, $-C(R^{20})=CHC(O)R^{20}$, $-R^{21}C(O)R^{20}$, $-R^{21}C(O)OR^{20}$ or $-R^{21}OC(O)R^{20}$, in which R^{20} is a hydrogen, a halogen, a linear or branched $C_{1.5}$ alkyl, a linear or branched $C_{1.5}$ haloalkyl, a linear or branched $C_{5.10}$ cycloalkyl, a linear or branched $C_{2.5}$ alkenyl, a linear or branched $C_{2.5}$ haloalkenyl, or an optionally substituted $C_{7.24}$ aralkyl, and R^{21} is a $C_{1.20}$ hydrocarbylene;

To the extent the recited formula embraces procatalysts wherein "p" is 1 or 2 and R₁ is selected from any of the enumerated chemical species, claim 1 literally reads on subject matter for which written description is not provided in the priority document (based on the content of the certified translation).

Claim 1 further recites a cocatalyst represented by a formula (2): $[(R_3)-P-(R_4)_a(R_4)_b[Z(R_5)_d]_c][Ani]$ wherein R_3 is a hydrogen, an alkyl, or an aryl. The priority document describes a formula (2) containing an H-P- moiety and does describe the embodiments of the present invention wherein R_3 is an alkyl or an aryl (*cf.*, certified translation at page 7, lines 8-10).

Similarly, regarding claims 4 and 5, examiner finds no adequate support in the priority document for the claimed features of a group 10 metal compound represented by recited formula (4) and a palladium compound represented by recited formula (5), respectively. Indeed, the most relevant portions of the priority document concerning procatalyst structure and composition (*see*, certified translation at page 6, line 25 to page 7, line 7 and pp. 24-25) fail to specifically describe either of said claimed formulae.

Because the foreign priority document does not provide written description of the entire subject matter set forth in the present claims, as required by Section 112, first paragraph, examiner finds that claims 1-18 have an effective filing date as of the 07/05/2005 filing date of the international stage application, and not as of the filing date of the foreign priority application. Accordingly, applicants have not antedated WO '277, which was published (03/03/2005) prior to the international filing date. The continued rejection over WO '277 is therefore maintained as tenable.

Claims 8 and 9 stand objected to as being dependent on a rejected base claim, but would be allowable if rewritten in independent form including all the limitations of the base claim and any intervening claim. The claimed embodiments wherein the catalyst mixture is supported on an inorganic support are not disclosed nor adequately suggested in the available prior art.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner F. M. Teskin whose telephone number is (571) 272-1116. The examiner can normally be reached on Monday through Thursday from 7:00 AM - 4:30 PM, and can also be reached on alternate Fridays.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reached on (571) 272-1114. The appropriate fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Fred M Teskin/
Primary Examiner, Art Unit 1796

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